

Product datasheet for **RG208087**

Prostaglandin D2 Receptor (PTGDR) (NM_000953) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prostaglandin D2 Receptor (PTGDR) (NM_000953) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prostaglandin D2 Receptor
Synonyms:	AS1; ASRT1; DP; DP1; PTGDR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208087 representing NM_000953 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCGCGGTTCTACCGCTGCCAGAACACCACCTCTGTGAAAAAGGCAACTCGGCGGTGATGGGCG
GGGTGCTCTTCAGCACCGGCTCCTGGCAACCTGCTGGCCCTGGGGCTGCTGGCGGCTCGGGGCTGGG
GTGGTGTGCGGGCGTCCACTGCGCCCGCTGCCCTCGGTCTTCTACATGCTGGTGTGTGGCCTGACGGTC
ACCGACTTGCTGGCAAGTGCCTCCTAAGCCCGTGGTGTGGCTGCCTACGCTCAGAACCGGAGTCTGC
GGGTGCTTGCGCCGATTGGACAACCTGTTGTGCCAAGCCTTCGCTTCTTCATGTCCTCTTTGGGCT
CTCCTCGACACTGCAACTCCTGGCCATGGCACTGGAGTGTGGCTCTCCCTAGGGCACCCCTTCTTCTAC
CGACGGACATCACCTGCGCCTGGGCGCACTGGTGGCCCGGTGGTGGAGCGCCTTCTCCCTGGCTTTCT
GCGCGCTACCTTTCATGGGCTTCGGAAGTTCGTGCACTACTGCCCGGCACCTGGTGTCTTATCCAGAT
GGTCCACGAGGAGGGCTCGTGTGCGGTGCTGGGTACTCTGTGCTCTACTCCAGCCTCATGGCGTGTG
GTCCTCGCACCGTGTGTGCAACCTCGGCGCCATGCGCAACCTCATGCGATGCACCGGCGGCTGCAGC
GGCACCCGCGTCTGCACCAAGGACTGTGCCGAGCCGCGCGGACGGGAGGGAAGCGTCCCCTCAGCC
CCTGGAGGAGCTGGATCACCTCCTGCTGCTGGCGCTGATGACCGTGTCTTCACTATGTGTTCTCTGCC
GTAATTTATCGCGTTACTATGGAGCATTTAAGGATGTCAAGGAGAAAAACAGGACCTCTGAAGAAGCAG
AAGACCTCGAGCCTTGCATTCTATCTGTGATTTCAATTGTGGACCCTTGGATTTTATCATTCTTCAG
ATCTCCAGTATTTTCGATATTTTTTACAAAGATTTTCATTAGACCTCTTAGGTACAGGAGCCGGTGCAGC
AATTCCTAACATGGAATCCAGTCTG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208087 representing NM_000953
 Red=Cloning site Green=Tags(s)

MKSPFYRCQNTTSVEKGN SAVMGGVLFSTGLLGNLLALG LLARSGLGWCSRRLRPLPSVFYMLVCGLTV
 TDLLGKCLLSPVLAAYAQNRSRLV LAPALDNSLCQAF AFFMSFFGLSSTLQLLAMALECWL SLGHPPFY
 RRHITLRLGALVAPVVS AFSLAF CALPFMGFGKFVQYCPGTWCFIQMVHEEGSLSVLGYSVLYSSLMALL
 VLATVLCNLGAMRNL YAMHRR LQRHPR SCTRDCAEPRADGREAS PQPLEELDHL LLLLALMTVLF TMC SLP
 VIYRAYYGAFKDVKEKNRTSEEAE DLRALRFLSVISIVDPWIFIIFRSPVFRIF FHKIFIRPLRYSRCS
 NSTNMESSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000953

ORF Size: 1077 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000953.3](#)

RefSeq Size: 2966 bp

RefSeq ORF: 1080 bp

Locus ID: 5729

UniProt ID: [Q13258](#)

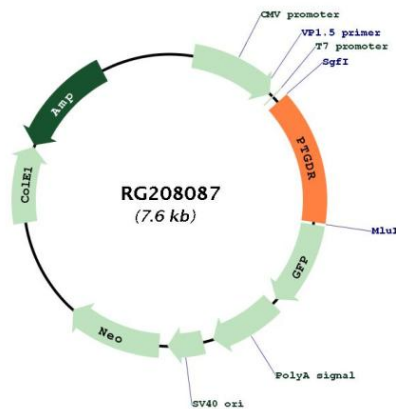
Cytogenetics: 14q22.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein is reported to be a receptor for prostaglandin D2, which is a mediator of allergic inflammation and allergic airway inflammation in asthma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG208087